



Y-12 IS RAPIDLY BECOMING THE PICNIC CAPITAL OF OAK RIDGE.
The two pictures above certainly help to prove the point. Several Y-12ers who are on the B Shift and members of their families are getting ready



to put away some of the fine food which can be found at any Y-12 picnic. The event was held recently at Concord Park.

Y-12er Attends NSA Convention

Eight members of the Oak Ridge Chapter of the National Secretaries Association (International) attended the eleventh annual convention in Detroit July 18-21.

The three Carbide plants in Oak Ridge were represented by local secretaries at the meeting. La-Wanda Estes, president of the local chapter and delegate to the convention, is from the ORGD Plant. Nelle Cromer, treasurer, is from the Y-12 Plant. Yvonne Lovely, vice-president and candidate for the title of "National Secretary of the Year"; Margaret Albritton, secretary of the Tennessee State Division, NSA; Margaret Stewart, Rebecca Rickman, Elizabeth Young and Erma Howe are from the Oak Ridge National Laboratory.

Mrs. Alice Leopold, Assistant to the Secretary of Labor for Women's Affairs, was the keynote speaker at the convention. At the official opening of the convention Thursday, July 19, Mrs. Leopold addressed several thousand secretaries from all parts of the United States and from Canada and Puerto Rico.

The convention's theme: "To Open More Doors," was emphasized in the many outstanding programs held on the occasion. Highlights included the selection of the Association's "Secretary of the Year." At this traditional event, a panel of prominent judges reviewed candidates and their qualifications and awarded the title on the basis of educa-

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Dr. H. J. Gomberg To Speak At Physics Seminar Meet

Dr. Henry J. Gomberg will be the speaker at a meeting of the Oak Ridge Physics Seminar at 3:15 o'clock Friday afternoon of this week, July 27. The meeting will be in the auditorium of Bldg. 4500, Oak Ridge National Laboratory, and the subject of discussion will be "High Resolution Autoradiography." Dr. Gomberg is from the University of Michigan on loan to ORNL.

UNION CARBIDE AND CARBON CORPORATION
Carbide and Carbon Building
30 EAST FORTY-SECOND STREET
NEW YORK 17

MORSE G. DIAL
PRESIDENT

To All UCC Employees:

Each year it has been my pleasure to announce new gains in Union Carbide's continuous drive for accident-free operations. Our safety experience in 1955 was again noteworthy.

You will be interested to know that we established a new safety record. We reduced the frequency of accidents to the lowest rate in the Corporation's history. Our rate was only one quarter of that reported by industry as a whole.

We should note, however, that while our severity rate of accidents last year was 25.5 per cent below the average rate for the preceding five years, it was above the severity rate for 1954. We must strengthen our efforts during the next year to continue the reduction of this rate.

It is apparent that one of the most important of our safety programs has been that of integrating safety procedures with the regular operating procedures in our plants. Toward this integration, an increasing number of our plants last year formed management safety committees, and through these the supervisors, who actually direct the operating procedures, undertook responsibility for safety in their departments and units. This has been proving a most effective method for emphasizing that the right way to do a thing includes the safe way of doing it.

It is also gratifying to realize that the off-the-job activities of the people of Union Carbide continued to receive considerable attention in our safety programs. Through the formation of home safety committees, families are developing an active interest in accident prevention. It is always encouraging to know that our safety efforts are producing good results at home as well as at work.

With the programs now in effect and planned, I am certain that our approach to the subject of safety is fundamentally sound. We need, however, the support and cooperation of every man and woman of Union Carbide. Only in this way can we be assured of an unprecedented record in 1956—and all that such a record symbolizes in the happiness and well-being of our people.

Morse G. Dial
President

League Of Women Voters Will Sponsor Program

The Oak Ridge League of Women Voters will sponsor a program on Monday, July 30, at 7:30 p.m. at the Oak Ridge High School Auditorium. The program will be a "Candidates Rally." Candidates for public office will be there to speak and there will also be a question and answer period.

A Shift To Hold Picnic August 16

The A Shift will hold a big picnic for all employees and members of their families on Thursday, August 16, at Big Ridge Park. The event will begin at 10 a.m. Everyone is to bring their own food. Tom Hamrick is the recreation committee chairman for A Shift.

TASTY ENTREES OFFERED ON SPECIAL LUNCHES

Tasty entrees are offered on the 50-cent Y-12 Cafeteria Special Lunches for tomorrow, Thursday, July 26, and next Tuesday, July 31. The Thursday Special Lunch will be featured by roast beef hash, while on next Tuesday chicken a la king on hot biscuit will be the main dish. Each Special Lunch also includes one vegetable, choice of salad or dessert and rolls and butter.

Cafeteria patrons are encouraged to bypass those sections of the serving line where they are not making a selection even though others are being served at that particular place. This accepted practice will help to give everyone more efficient service.

July, August Meetings Postponed By Carbide Club

The Executive Board of the Carbide Women's Card Club (formerly "Carbide Wives") announces that the regular monthly parties will be discontinued during July and August and that activities will be resumed on Wednesday, September 19, 1956. The meetings are being postponed because vacations, hot weather, house guests, etc., were preventing many of the club members from attending.

WHERE THE PENNIES GO

More coin-operated machines and more sales taxes have boomed the production of pennies by the government. In 1955 there were 938,000,000 pennies coined—twice the previous record for one year.

SAFETY SCOREBOARD

The Y-12 Plant Has Operated 5 Days Or 158,475 Man-Hours (Unofficial Estimate) Without A Lost Time Injury Through July 22

UCC Laboratory To Be Dedicated September 18

Facilities In Operation At Ohio Location

The new Parma, Ohio, research laboratory of National Carbon Company, a Division of Union Carbide and Carbon Corporation, will be dedicated September 18, it was announced recently by Adger S. Johnson, National Carbon's president. Designed primarily for basic research in chemical and solid state physics, the multi-million dollar laboratory brings to seven the number of major research centers operated by divisions of Union Carbide and Carbon Corporation, which in 1955 spent approximately \$43 million on research.

Lab Facilities In Operation

The new laboratory facilities are already in operation, Mr. Johnson said, with research scientists studying ways to improve existing materials and, more importantly, methods to create new materials for the metal, electronic, power, chemical, and electrochemical industries. A tour of the laboratory will be included in the dedication ceremonies to be attended by company officials and invited guests from industry and the fields of science and education.

"Many of the theoretical concepts we are now dealing with, and the experimental equipment with which to explore them, did not even exist a few years ago," Mr. Johnson pointed out, "and so at Parma we have assembled the latest in research tools, staffed by highly competent scientists, and are confident that out of this ideal creative atmosphere will come a deeper understanding of the nature of matter. It is significant that before World War II no more than 100 scientists were engaged in solid state physics research, while today between 3,000 and 4,000 are active in the field."

"Nuclear furnaces, new high-temperature refractory materials, the miniaturization of electronic equipment, entirely new electrochemical battery systems, and scores of other products of the future cannot be developed without a thorough knowledge of the molecular, atomic and subatomic makeup of solids," Mr. Johnson said. "At Parma, approximately 350 National Carbon employees, including 150 scientific and technical personnel, in addition to those engaged in clerical and service operations, will be engaged in this important work."

Located Near Cleveland

The new laboratory contains approximately 175,000 square feet of floor space, and is located near the center of a 126-acre plot on Snow Road in suburban Cleveland. Designed for extreme flexibility, with provisions for expansion, the main laboratory building consists of 158 laboratory modules, or individual research units, fully equipped with all the usual service lines and, in addition, unusual features such as lines distributing various rare gases. Supplementing the laboratory facilities are adjacent wings housing the chemical

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The Bulletin

Published Weekly By And For
Y-12 Employees Of
UNION CARBIDE
NUCLEAR COMPANY
A Division Of
Union Carbide And Carbon
Corporation
Post Office Box Y
Oak Ridge Tenn.
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Y-12ers Are Reminded Of Picnic Precautions



Poison Oak

Poison Ivy

The picnic season is on!

So it behooves all Y-12ers, members of their families and friends to

take a good look at the leaves pictured here. It will pay to recognize — and avoid them—for they are poisonous. If care is not taken, they have a nasty way of getting under the skin.

Uncultivated areas like woodland borders, or near fences, along stone walls and around tree trunks, pose a real threat. It is smart to pick the way carefully through such spots when going hiking, camping or picnicking.

Learn 'Em—Spurn 'Em

Poison ivy, poison oak and poison sumac—one or all of them—are found in almost every corner of North America. As a hint for a happier holiday, be extra cautious when "communing with nature" and remember the old rule . . . the safe rule . . . "Leaflets three, let them be".

The symptoms of poisoning, which is usually caused by direct contact with the leaf, may appear any time within a few hours to several days after exposure. They consist of a red rash, swelling, itching and burning, followed by the appearance of blisters of varying size. The blisters frequently become infected from scratching and the serum which is in them carries the poison to other parts of the body.

Direct Contact Not Needed

Because the poison can be picked up without direct contact, avoid touching clothing or shoes or rubbing the coat of a dog or cat that has been exposed to the plant. Don't inhale the smoke from burning leaves and vines.

Equally important is what to do if it should be your misfortune to come in contact with the "leaflets three". Wash the affected area with yellow soap, rubbing lightly. This should be done as soon as possible using warm water. Lather well at least three or four times and thoroughly rinse each time in clear, running water. If improvement does not follow within a short time, see a doctor. He will advise on the use of any of the new products recently developed by medical research, or any other remedy.

Pat Murphy attended a safety meeting. The employees had been given some printed instructions and safety engineers wanted to check on results.

"Pat," one of the engineers asked, "can you give six good reasons for safety?"

"Shure," says Pat, "them four little Murphys, me wife and me-self."



HOWARD HORNE of the Maintenance Planning Department took first place in the Y-12 Photographic Contest for the week ending July 13 with this picture of his little daughter, Margie Ann, on her second birthday.



"HAPPY VALLEY" is the subject of this fine photo made by Joseph H. Stewart Jr. of the Production Analysis Department. The picture took second place in the Y-12 Photographic Contest for the week ending July 13.

Y-12ers Can Aid In Keeping Insurance Rates From Rising



Insurance offers that feeling which is best described as "peace of mind." Y-12ers and millions of other Americans are willing to invest hard-earned money for the security that insurance offers.

Insurance protects investment in property and it protects the property of others. But, the one thing that is paramount is that it offers a degree of economic security to loved ones in time of accident and death, particularly in traffic mishaps.

Today insurance rates are rising and it's costing more and more to protect our loved ones and property. Why have insurance rates continued to climb year after year?

Careless driving, excessive speed and padding of bills have all added to the insurance premium. How can Y-12ers help keep insurance premiums down? Be honest with your insurance company — you only cheat yourself when you pad a bill. And, be careful when driving — Remember the life or limb you save may be your own or one of your loved ones.

CURIOUS CHILDREN

A University of Iowa speech expert recently estimated that the average four-year-old child asks about 400 questions per day. Experienced parents believe that is below par for the course.



By the time The Bulletin hits the streets this week, the Chief Colyum Conductor himself, GWD, will be back with you fine folks and I imagine he will have a few tall tales to relay about happenings from around Fort Lauderdale and vicinity. Maybe a few pictures also. First up this week for news is—

MAINTENANCE

G. A. Anderson, of the Laundry, journeyed to Orlando, Florida, for his vacation.

S. J. Kesterson, Process Maintenance, left no details as to his whereabouts while vacationing.

Seems like the sickness bug has hit the Field Maintenance Department as Marvin Short is in Fort Sanders Hospital in Knoxville recuperating from surgery . . . Johnny Finger is in the hospital in Clearwater, Florida . . . Also on the ailing list is T. L. Ferguson, J. C. Zimmerman, C. C. Jones, A. D. Cotton, W. F. Shearon, R. S. Manning, E. J. Hickie, N. L. Derryberry and M. J. Talley. A speedy recovery is wished to all the above folks.

Research Services was saddened to hear of the death of J. M. White on July 15; sympathy is extended to all the surviving relatives . . . C. J. Job is the proud pop of a fine baby boy born on July 19. He was too excited to give any further details . . . P. G. Perry was presented with twin boys recently at the Oak Ridge Hospital. No vital statistics as yet but, according to latest reports, the father is still o.k.

Electrical has a host of returnees from vacation, including B. Renau, G. R. Walls, L. E. Brown, R. F. Hickman, G. G. Watkins, E. Collins, E. E. Cook, O. H. Cutshaw, W. H. Dail, J. D. Huffman, R. J. LaForge and F. J. Russell. . . Frank Darby is taking his three weeks in Mississippi . . . M. S. Powell and D. G. Porter are also on vacation, no details . . . Carl Sharp spent his vacation at Myrtle Beach . . . Get-well wishes are sent to W. J. Wallace, J. B. Henry, J. H. Whidden and J. D. Caylor.

News from Alloy Maintenance is

that vacations are spent in many different places—J. R. Hawkins is touring out in Kansas . . . W. F. Keller went to Anderson and Woodruff, South Carolina . . . F. H. Wray is looking over the Smokies . . . J. J. Calloway and E. W. Weaver left no forwarding addresses . . . Barbara Thomas spent a recent week end in Kingston . . . The "A" Shift had a whingding of a picnic recently at Cove Lake. The planning committee consisted of W. S. Hollingsworth, J. C. Knisley and J. T. Yoakum—A fine time was had by all . . . Sympathy is extended to T. R. Keirm, whose mother-in-law passed away in Chattanooga on July 14.

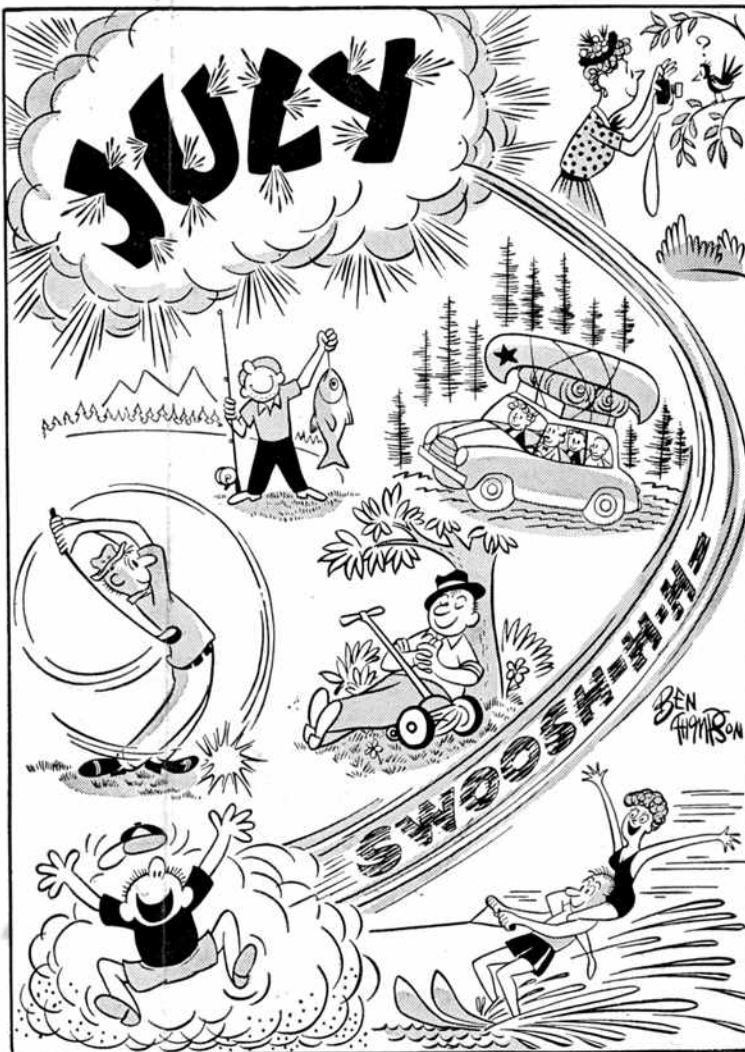
H. E. Fry and Z. S. Humphreys, Transportation, are taking things easy in Oak Ridge while vacationing, while J. Johnson is spending his three weeks remodeling his home in Harriman.

ALLOY

Joe Williams is spending the first week of his vacation at home in West Hills in Knoxville, then on to the Centennial celebration in Galax, Virginia, for another week . . . C. C. Price plans to work around his home while taking it easy.

Congratulations to E. E. Justus, of Colex, who is the proud papa of a little girl, Sherry Jean, born July 10 and she weighed in at seven pounds and four ounces . . . J. W. Norman is putting in a little time as a soldier over at Fort Jackson . . . Doyle Scott is waiting for the stork while on vacation . . . Others on vacation are C. A. Keck, C. R. Settles, Joe Delmonte and J. D. Seabrough.

More vacations in Alpha Four—C. E. King has been to Myrtle Beach fishing . . . L. J. Eggert is in Kansas . . . V. A. Davis has been to Philadelphia visiting his brother . . . W. A. McCloud just stayed at home . . . E. R. Daugherty took care of his chicken farm in Karns . . . A. T. VanDyke is a proud "grandpop" for the second time, it's a girl, Sharon Fay, born July 12 and weighed eight pounds and eight ounces . . . The welcome mat is out for J. T. Horn Jr. . .



C. J. Bowers is welcomed back to work after an extended illness . . . The grapevine says that D. R. Johnson has been doing quite a bit of water skiing lately.

SHIFT SUPERINTENDENTS AND GENERAL UTILITIES

Sympathy is extended to F. D. Bender on the death of his mother on July 18 in Ohio.

E. I. Clark, of the Steam Plant, is spending his three weeks in Texas . . . H. D. Baker is vacationing in Emory Gap, Tennessee.

Leisure timers are J. D. Tolliver in Monroe and Ann Arbor, Michigan, also some time will be spent around his old stomping ground of Harlan, Kentucky . . . B. G. Dyer is in Jackson, Tennessee . . . B. L. Fain is camping in the Smokies and Tellico Plains . . . Samuel Kite is in Fontana.

TECHNICAL

B. D. North, Piping and Civil Engineering, spent his vacation in Dayton, Ohio . . . G. S. Dykeman traveled to St. Louis . . . K. O. Rowan is in Ridgecrest . . . I. G. Speas is in the Sunshine State of Florida.

Mildred Lister, Process Design, spent her vacation in Sarasota.

The Project Engineering Department is sorry to see Al Barrasso, Louis Tillman and Alene Peach leave, best wishes go with them . . . Ronnie Stenglein is on vacation.

Chemical and Industrial states that W. T. Jones is in Sweetwater . . . W. A. Kirk will visit Nashville, Mobile and New Orleans and that J. E. Miller is golfing in St. Petersburg.

B. E. Cooper, of Instrument Engineering, is taking things easy for a spell in Daytona.

John Bennett, of Mechanical, and his family did their vacationing in Panama City while Bill Hood and family went to Sarasota.

H. R. Gwinn, Special Testing, spent his off time in Chicago, also visited in West Virginia (He says W. Va. would be as big as Texas if they flattened out the hills) . . . W. H. Dodson is on the Gulf side of Florida, St. Pete.

Tom Goodpaster, of Production Analysis, is passing out cigars—a new son, James Daniel, was presented to him on July 16, weight was six pounds and 14 ounces . . . Martha Nelson journeyed to Indiana and Michigan recently . . . Irene Jenkins is working on her new house while resting up . . . Get-well wishes are sent to Joe Stewart . . . L. A. Stephens' parents, Mr. and Mrs. F. H. Stephens, of Chattanooga vacationed in Gatlinburg and also visited with the Stephens in Knoxville.

Alta Curtis, of Production Assay, and her husband, Glen, of Electrical, are vacationing in Atlanta . . . Neil Goodwin is staying in Oak Ridge while relaxing . . . Virginia Hill, Ruth Ruffner, Frances Kelly and Margaret Brooks are traveling down one side of Florida and up the other . . . Wanda Hawn is in Oliver Springs.

M. J. Bezik and F. B. Waldrop, of Development, are on vacation with destinations unknown.

INDUSTRIAL RELATIONS

J. E. Warren, of the Fire Department, has been on vacation . . . D. E. Bailey is getting a set of
Continued on Page 4



Get-well wishes are sent the following Y-12 employees who were patients last week in the Oak Ridge Hospital:

H. D. Pierce and C. J. Beckett, Process Maintenance; W. H. Asbury, A Mechanical Operations; N. H. Campbell, Chemical; R. R. Thompson, Beta 2; D. E. Bailey, Fire Prevention and Control; Ernest Lawson and Wayne Rogers, Buildings and Grounds; J. P. Murray, C Mechanical Operations.



THE B SHIFT BOMBERS CAN ALWAYS BE COUNTED ON to furnish plenty of competition to any team in the Y-12 American Softball League. Front row from left to right, A. C. Wright, Bill Ramsey, R. B. Smith and Coleen Shotts. Back row from left, John Baker, Red McNabb, Gib Hatmaker, Bill Butturini, Herb Oliver and Freeman Castleberry.

Early Birds Win Title In Y-12 Plant League

Champions of the Y-12 National Softball League are the Early Birds, managed by E. W. Smith with an outstanding record of 10 wins and only one loss. The Slow Pokes put up some keen competition

Laboratory Dedication To Be September 18

Continued from Page 1
engineering and laboratory furnace areas, machine shop, dispensary, a library with a 12,000-volume capacity, cafeteria, locker and shower rooms, boiler and compressor room, and administrative, clerical and business offices. An auditorium is ingeniously designed to double as a laboratory and projection room for research on light sources for the motion picture industry.

Heading up the new laboratory is Dr. Robert G. Breckenridge, 40-year-old National Carbon physicist, who previously had a broad background of research experience and accomplishment as Chief, Solid State Physics Section, U. S. National Bureau of Standards, and Head of Physics Branch, Office of Naval Research at Washington, D. C.

Dr. Breckenridge reports directly to Dr. Clarence E. Larson, Vice President in Charge of Research for National Carbon Company. Dr. Larson was formerly director of the Oak Ridge National Laboratory, operated for the Atomic Energy Commission by Union Carbide and Carbon Corporation.

Architects for the new research laboratory were Skidmore, Owings & Merrill of New York City. The Austin Company served as engineers, and the construction work was done by the Gilmore-Olson Company.

A. Tiller-E. Roberts Annex Golf Title

Arnold Tiller and Eddie Roberts Jr. annexed the last half title in the Y-12 Plant Golf League at Rockwood last week. Tiller and Roberts had a fine record of 16 wins and 2 losses.

League standings follow:

Team	W	L
Tiller-E. Roberts Jr.	16	2
Mee-Owings	11 1/2	6 1/2
Pietz-R. Roberts	11 1/2	6 1/2
S. Brown-Plemons	10 1/2	7 1/2
S. Brown-True	9	9
Mays-E. Roberts Sr.	6	12
Hall-Whitehorn	5 1/2	12 1/2
Anderson-McMillin	2	16

TENNIS FAST GAME

Tennis balls hit well travel fast. A special clocking machine recently caught a serve by Pancho Gonzales swooshing by at 112.83 miles per hour.

Hunt Positions At New Record

A record total of 15,365 hunt positions will be open to deer hunters in Tennessee on 15 wildlife management areas this fall, according to Roy Anderson, chief of game management for the Tennessee State Game and Fish Commission.

This is almost 1,500 more positions than were available last year, Anderson said, and he expects the upcoming season to be as good if not better than that of last year, when 1,682 deer were taken on the areas.

According to Anderson, hunts on all areas will be of two days' duration except for the Central Peninsula Wildlife Management Area, where 16 one-day hunts accommodate 150 hunters each are scheduled during the latter part of November and the first part of December. Other areas and quotas for each hunt are as follows: Andrew Johnson, Big Ridge and Norris, 5 hunts each, 100 hunters per hunt; Catoosa, 4 hunts, 850 hunters per hunt; Cheatham, 4 hunts, 160 hunters per hunt; Cove Creek, 5 hunts, 75 hunters per hunt; Fall Creek Falls, 4 hunts, 200 hunters per hunt; Laurel Fork, 3 hunts, 100 hunters per hunt; Ocoee, 3 hunts, 350 hunters per hunt; Prentice Cooper, 3 hunts, 200 hunters per hunt; Shelby, 5 hunts, 60 hunters per hunt; Tellico, 5 hunts, 600 hunters per hunt, and Unicoi, 5 hunts, 200 hunters per hunt. In addition, one hunt is scheduled for the Kettlefoot area with no quotas being set.

For those interested in taking part in this fall's managed deer hunts, Anderson said that application blanks were available about July 15 and could be obtained from the Nashville, Knoxville, Jackson and Crossville offices of the State Game and Fish Commission and from all wildlife management area managers and all conservation officers. He emphasized that completed applications must be submitted to the Nashville office by September 10. Hunters selected to participate in the hunts will be notified after public drawings have been held.

Carbide Bowling Loop Slates Meeting

The All-Carbide Scratch Bowling League is getting an early start this season by scheduling an organizational meeting for Monday night, August 6, at 7 o'clock at the Central Alleys. The league has three team spots open and anyone interested in placing a team in the circuit is urged to attend the meeting or send a representative.



THIS "LITTLE FELLER" FISH held by Gordon W. Brewer, of the General Machine Shop, is considered "small" by Florida fishermen — he's just a six-pound largemouth bass. Brewer caught the bass while vacationing at Lake Bryant.

Fourth Y-12 Golf Tourney Will Be Held This Saturday

The fourth Y-12 Plant Golf Tournament of the current season will be held at the Oak Ridge Golf and Country Club this Saturday, July 28. Tee off time will begin at 7 a.m. Division play based on



L. E. MAXWELL of the Guard Department in Y-12 proudly displays this fine crappie which he caught recently at Watts Bar. Maxwell was using a South Bend rod with a Herter reel and minnows for bait.

Burrus-Sawyer Tops In Knoxville League

Brice Burrus and Al Sawyer took over first place recently in the Y-12 Plant Golf League at Whittle Springs in Knoxville. Running number two in the fast circuit is Gene Huskisson and Bill Wilburn while George Wylie and Floyd Ludwig slid to the third spot.

Low scratch honors for the week of July 7 went to Sawyer with a 36. Low handicap totals were shared by Burrus, Wilburn and Sexton, each shooting a 32. Countiss and Bowles had the best team scratch score, a 78, while Huskisson and Wilburn copped handicap honors with a 65.

League standings follow:

Team	W	L
Burrus-Sawyer	20 1/2	3 1/2
Huskisson-Wilburn	20	4
Ludwig-Wylie	19 1/2	4 1/2
Morgan-Miller	16	8
Countiss-Bowles	19 1/2	10 1/2
Speas-Heins	15 1/2	8 1/2
Hill-Hilton	15	9
Barrasso-Cook	12	12
Cabe-Lovell	11 1/2	12 1/2
Kovich-Bremen	8	19
Simmons-Stroud	7	17
Peterson-Lockhart	8 1/2	21 1/2
Wakefield-Schappel	7	20

Rides Wanted, Offered

Riders wanted or will join car pool from Fountain City to North Portal, Straight Day. John Peele, plant phone 7996, home phone 6-0721, Knoxville.

Riders wanted from Lenoir City to North Portal, Straight Day. Betty Brown, plant phone 7105, home phone 1304, Lenoir City.

Ride wanted from vicinity of Kingston or Highway 58 to West Portal, F Shift. Roy Young, plant phone 7756.

Ride wanted from 948 North 5th Avenue in Knoxville to Central Portal, Straight Day. J. D. Bounds, plant phone 7360, home phone 5-5963, Knoxville.

Three riders wanted from Northshore, Bearden, Sutherland Avenue or Anderson Hills section in Knoxville to any portal, Straight Day. W. H. Holbert, plant phone 7222, home phone 8-0149, Knoxville.

Ride wanted from 111 Vienna Road in Oak Ridge to Central Portal, Straight Day. Jean Bridges, plant phone 7232, home phone 5-9468.

handicaps will be used for the tourney. Division I will be made up of players with handicaps from 0 through 12. Division II will be players with handicaps from 13 through 22 and Division III will be composed of players with handicaps from 23 through 36.

Prizes will be awarded for the following events: Division I—low net, low gross, second place net, second place gross, low net on front nine and second low net on front nine. Division II—low net, low gross, second place net, second place gross, third place net, third place gross, low net on front nine, and second low net on front nine. Division III—low net, low gross, second place net, second place gross, third place net, third place gross, low net on front nine, second low net on front nine.

A hole-in-one contest will be held with the first, second and third place winners receiving prizes.

Greens fee for the tournament will be \$3.00. Handicaps will be obtained from the official scorer on the morning of the tourney.

Y-12 Pistoleers Post High Scores

The Y-12 Pistoleers fired a match at the Oak Ridge Sportsmen's Association Range on July 17 with the Experts nipping the Marksmen and the Masters defeating the Sharpshooters. High man for the winning Experts was J. C. Ezell with a scratch score of 285, boosted to 291.392 with handicap. D. R. Alford, of the Masters, tallied a 280 scratch, increased to 292.074 with handicap. Leading the Sharpshooters was R. L. Vanderpool with 280 scratch and 293.026 with handicap, while T. J. Bush, of the Marksmen, shot a 263 scratch boosted to 289.763 with handicap.

League standings follow:

Team	W	L
Marksmen	8	6
Masters	8	6
Experts	7	7
Sharpshooters	5	9

Mitchel-Tibbatts First In Ridge Loop

The team of George Mitchel and Nelson Tibbatts, with Jack Spears subbing for Mitchel, moved into first place in the Y-12 Golf League at Oak Ridge last week by winning five and one-half points from C. E. Harris and Al Gillen. A six-point win was turned in by J. P. Smith and Jim Bartholomew over Jim Patterson and Charley Peterson, while John Snyder and Harold Ratjen also nipped Bob Orrison and Harvey Saylor via the shutout route. Art Hines and Logan Emlet moved up to a tie for second place by clipping Jay Holzknecht and Paddy Peckman for four and one-half tallies. Jack McLendon and Gentry Underwood showed rare form by winning four big markers from John Boyd and George Oliphant.

The five low scorers last week with gross being listed first then net, follows:

Tibbatts 41-33; McLendon 45-34; Spears 39-35; Gillen 37-35, and Harris 43-37.

League standings follow:

Team	W	L
Mitchel-Tibbatts	14 1/2	3 1/2
Boyd-Oliphant	12	6
Hines-Emlet	12	6
Underwood-McLendon	10 1/2	7 1/2
Patterson-Peterson	9	9
Holzknecht-Peckman	7 1/2	10 1/2
Smith-Bartholomew	7	11
Snyder-Ratjen	6	12
Harris-Gillen	6	12
Orrison-Saylor	5 1/2	12 1/2

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new "choppers."

Irene Reed, of Security, was in an auto accident recently, a speedy recovery is wished to her. The Department had a big picnic at the home of Bill Hays recently—everyone certainly had a wonderful time. Henrietta Jenkins is resting at Virginia Beach.

Carl Cooper Sr., of Personnel Services, is visiting with his cronies in Nashville while on vacation.

CHEMICAL

Congratulations to Russ Smith, of Product Processing, on the birth of a new daughter born recently at the Oak Ridge Hospital. J. H. Nicholson journeyed to Alabama on vacation. Nazy Ritter picked Daytona. Katie Gully is touring Florida. D. E. Holt is at Kentucky Dam State Park doing a little camping. R. E. Pope is dividing his time between home and the Smokies. C. Y. Thurman is spending some time at Myrtle Beach and the Smokies. J. C. Nelson is visiting relatives in Columbus, Ohio. Mary Scott and her family will visit her parents-in-law in North Carolina. Congratulations to J. H. Wheeler on the birth of a new daughter, Kathy Ann, born July 7 and weighed seven pounds.

MECHANICAL OPERATIONS

A flock of folks are on vacation from the General Machine Shop. C. L. Newman is in Tampa. F. A. Starnes will spend some time on Norris Lake then fly to Pittsburgh to attend the Eagles Grand Convention. C. J. Ward is in Oak Ridge.

J. R. Gordon has a former classmate, Harold Kristensen and family, visiting from Chicago. J. F. Burnett is in St. Petersburg. J. A. Packard is at home in Clinton. G. A. Tedder took off for Miami. B. G. Cross is staying close at home in Clinton. H. Garrison is in Memphis. J. L. Overton is in Clinton. B. R. Cabbage traveled to West Palm Beach. O. R. Kinser has returned from Daytona. W. B. Haddix spent last week end in Asheville, North Carolina. A. D. Hickey will do some fishing with relatives from Memphis while relaxing. Jack Steward has his parents, sister and her husband visiting from Birmingham. L. L. Spear spent his vacation in Nashville and Dale Hollow fishing. G. E. Hileman and family are in New Orleans and Panama City. E. E. Burns decided on Kingsport and Norfolk. J. C. Daniels got a little too much sun in Florida recently. Toho Miller has been to Asheville attending a Bible Conference at Ben Lippen Camp. E. L. Armstrong is out of the hospital recuperating at home. Sympathy is extended to J. T. Creasman, whose stepmother passed away recently in Murphy, North Carolina. Get-well wishes are sent to J. D. Davis, R. E. McNew, A. D. Douglas, S. J. Myers, C. C. Hickey and R. E. Heape.

F. Mechanical Operations sends get-well wishes to the mother of C. H. Edwards, who is a patient in the Rockwood Hospital. M.

Patterson is vacationing in West Virginia. J. Claiborne has gone to South Carolina with his best fox hound and says he is going to bring back a load of peaches. Sympathy is extended to L. R. Lovelace on the death of his uncle recently. M. F. Hazelwood is the proud owner of a new well—claims all he has seen yet is "rust."

D Mechanical Operations had an excellent picnic recently at Big Ridge. It was an all-day affair with many different types of games and entertainment enjoyed by all who attended. Many prizes were won by different individuals. They say the cooking was outstanding, with Eddie Webster and Bill Simpson being the chefs. Sympathy is extended to A. D. Marlow, whose mother-in-law passed away recently. Get-well wishes are sent to the wife of C. L. Estes, who is in the Baptist Hospital in Knoxville. The Department is glad to have J. H. Douglas back to work after a long illness. Many vacationers, here goes—R. L. Crumley in St. Louis. Reece Robbins and family in Florida. J. A. Dockins picked a nice spot, the junk yard, in Maryville. G. E. Taylor and family selected Norton, Virginia. T. D. Craig is in Alabama with relatives. E. V. Hawk is entertaining relatives. R. E. Graham is taking in the sights at Lookout Mountain. C. B. Delozier took off without giving any details. D. H. Laundering spent his off time in Oak Ridge. Get-well wishes go to D. D. Taylor, J. A. Williams, H. L. Brown, L. B. Elkins, R. S. Owens and J. L. Billings. Congratulations to D. C. Bonifacious on the birth of a son, Daniel Christopher III, born July 12 at the Baptist Hospital. The youngster weighed in at seven pounds and 12 ounces. Floyd McKamey is at National Guard Camp at Camp Stewart, Georgia. J. L. Helms, B. E. Rowland and other members of a fishing party hooked 88 at Fort Loudoun recently.

MANUFACTURING OFFICE

Doris Brady, of Engineering Records, is vacationing in Florida. News from Plant Records is that Herb Reynolds has been on vacation at Elizabethton, Tennessee.

Helen Cunningham, of Reproduction, spent her vacation in Alcoa.

Sympathy is extended to Earl Goode, of Cashier and Travel, whose father-in-law passed away recently. Best wishes go to Sue Stewart, who terminated on July 20 to assume the role of "motherhood." Betty Heath is in Florida on vacation.

Vacationers make the headlines in the Timekeeping Department. I. J. Shotts is in Alabama. Bob Worthington is at home in Clinton while Birdie Fitzgerald will spend part of her time in Oak Ridge and Celina, Tennessee.

R. A. Angel, Property, spent his time off in Oakdale.

Get-well wishes go to Pat Kenner, of Receiving.

C. E. Jennings and L. A. Hammon, Property Sales, have returned from vacation.

Returnees from vacation in the Production Inspection Department are C. T. Oglesby, W. H. Till, J. C. Jordan and W. M. Turner. Get-well wishes are sent to J. P. Hunt. George Fulmer and Merle

Y-12er Attends NSA Convention

Continued from Page 1

tion, experience, appearance and poise. The judges were the Very Rev. Celestin Steiner, S. J., president of the University of Detroit; Mr. Eugene P. Hawkins, vice-president of Revere Copper and Brass, Inc., Detroit; and Mrs. Madelyn Coe, fashion coordinator of the J. L. Hudson Company.

The CPS—Certified Professional Secretary—an educational program sponsored by the National Secretaries Association and aimed at placing secretaryship on a professional level, was featured at a dinner honoring secretaries who have attained this professional rating. At present there are 772 CPS holders in the United States—three of these in Oak Ridge.

Another highlight of the event was a "Three B's Workshop." Based on the Association's motto, "Better Learning, Better Letters, Better Living," the workshop presented a blueprint for attaining the goals expressed in this motto. Speakers included members of the editorial staffs of leading magazines in the women's business education and secretarial fields. Special guests from business and business education were among the participants.

The convention's busy agenda included reports on the Association's many activities and projects, business sessions and the election of national officers. Tours to Detroit's famed industrial plants and points of civic and historic interest were also held.

Banquet Held

On Saturday, July 21, the Association wound up its activities with a banquet at which its newly elected national officers were installed.

A non-profit organization, and the world's largest association for business women in one profession, the National Secretaries Association was formed in 1942 to promote the educational and professional standards of secretaries. Its national conventions and the many informative and educational programs presented at these annual events have attracted nationwide attention.

NEA Is Conducting Survey On Discipline In Schools

A nationwide survey on the problem of discipline in the nation's schools will be conducted by the National Educational Association. The poll will be made among 10,000 to 20,000 classroom teachers in an effort to determine the cause of an apparent slump in pupil discipline and behavior during the past few years.

Following the poll, the association plans to hold six regional conferences. At these conferences a psychiatrist, educator and social worker will augment the findings of the poll with first-hand knowledge. The final evaluation of the problem will be made by a graduate school of education, not yet selected.

Emery have purchased a fancy cabin cruiser and they plan to spend the latter part of August touring down the Tennessee to New Orleans.

Stores says that R. L. Eachus, G. L. Edwards and Juanita Fox are on vacation and that K. F. Brown is sightseeing in Washington, D. C.

The makers of the Constitution sought to protect Americans in their beliefs, their thoughts, their emotions and their sensations. They conferred, as against the Government, the right to be let alone—the most comprehensive of rights and the right most valued by civilized men.—Justice Louis D. Brandeis.



EQUIPMENT FOR A NEW PROCESS of production of titanium metal sponge, developed by Electro Metallurgical Company, is shown above in operation commercially in the new Electromet plant at Ashtabula, Ohio.

Electro Metallurgical Company Produces Titanium Metal Sponge By New Process

The first heat of titanium metal sponge at the new Ashtabula, Ohio, plant of Electro Metallurgical Company, a Division of Union Carbide and Carbon Corporation, was completed a few weeks ago. This heat produced by the sodium-reduction process marks the entry of Electromet into the titanium metal sponge field on a commercial scale.

The plant which has a capacity of about 7,500 tons of titanium metal sponge a year is the largest built to date and was privately financed by the Company. The new plant is located on the Lake Erie site of Electromet's plant for the production of ferro-alloys and calcium carbide at Ashtabula.

First Production By New Process

This is the first commercial production of titanium sponge in the United States by a method other than the magnesium-reduction process. In Electromet's process sodium is used to reduce titanium tetrachloride, resulting in metal of high quality. Economic and technological considerations led to the commercial development of the sodium reduction process, after extensive studies of other reduction methods. The Company has had this process in operation on a pilot and prototype plant scale at its Metals Research and Development Laboratories in Niagara Falls, N.Y. The titanium sponge produced by Electro Metallurgical Company is remelted into ingots by producers of titanium mill products and commercial shapes.

The new titanium process has been the subject of research and development for more than six years at a cost of over \$2,000,000. Actually, Electromet has conducted research on various methods for the production of titanium for almost 15 years, and has been regularly producing alloys of titanium for more than 20 years.

Properties Of Titanium

While titanium is only 60 per cent heavier than aluminum, its engineering alloys are more than twice as strong as the best commercial aluminum alloy. Although titanium is only about half as heavy as steel, its alloys for engineering use approach the tensile strength of most alloy steels.

Titanium alloys maintain their strength at temperatures up to 700 degrees Fahrenheit, where other light-weight metals lose strength rapidly after about 300 degrees Fahrenheit.

Titanium has excellent resistance to corrosion by air, salt water, nitric acid, wet chlorine, and organic and inorganic chloride solutions.

How Titanium Is Used

At the present time, uses of titanium metal are restricted largely to military applications, principally in aircraft. Because of its unusual properties, however, civilian uses taking advantage of these properties are expected to develop as the metal becomes more plentiful. Because it has the

strength of steel, yet is so much lighter, the metal is especially suited for aircraft components such as airframes and nacelles. The high strength and corrosion resistance of titanium make it particularly useful in equipment where there are moving parts subject to corrosive service such as in jet engines. Potential uses include reciprocating parts of many other types of machinery. Many important civilian and industrial uses offer sizable potential markets. Among the biggest will be chemicals, petroleum, food, marine, electronics, and atomic energy.

Titanium Output Increasing

Titanium sponge has had a spectacular growth from a mere three tons in 1948 to 7,200 tons in 1955, and an estimated 13,000 tons this year. The Electromet plant is expected to reach rated capacity of 7,500 tons per year by the fourth quarter of 1956.

Power Mower Precautions Urged Of All Y-12ers

Although no Y-12ers have yet been reported on the growing list of power mower casualty lists this spring, there are a number of precautions that should be observed to avoid possible serious injuries. Here are a few of them:

1. Wear safety shoes and eye protection wherever possible.
2. Clear lawn of sticks, stones and wires.
3. Never leave mower unattended while motor is running.
4. Don't smoke while filling gasoline tank and shut off motor while making adjustments.
5. Keep gasoline in a safe container.
6. Make frequent checks and tighten all loose screws and bolts.
7. Always mow down—not up—on banks to avoid slipping of feet and going off balance.
8. Never allow children to play around power mowers.

FINGER PRINTS HELPFUL

The Federal Bureau of Investigation recently stated that it now has 71,000,000 finger prints on file that can provide almost positive identification of individuals when needed.

